BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work: Improvements to park at Bhuvaneshwari nagara MCECHS Layout MS Ramaiah north city and Shabarinagara ward no 6

Job code :006-18-00002 | **Estimate cost : Rs 50.00 lakhs**

SL NO	DESCRIPTION OF WORKS	NO	DIMENSIONS L	B	D	QUANTITY	UNIT	RATE	AMOUNT
1	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. P.NO.25 I.NO.5.30								
	path way	1	2	438.00			876.00			
		Consider 85% of Quantity					744.60			
	Gazeeb To Pathway	1	2	25.00			50.00			
	benches plateform	2	15	1.35			40.50			
	gym equipment portion	1	1	14.00			14.00			
		1	2	8.00			16.00			
	Main Entrance Gate, Near	1	1	4.50			4.50			
							869.60			
	Basic 313.00				869.60	0.45	1,932.44			
	add 6% Area weightage 18.78					Say	1,932.00	nos	331.78	640,998.96
	Total 331.78									
2	KSRB 14.6-1: Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS P.NO.101.I.NO.14.7								
	path way	1	1	440.00	2.70		1,188.00			
		Consider 90% of Quantity					1,069.20			
	Sitting Bench Portion	1	15	2.35	1.50		52.88			
	path way to Gazeeb	1	1	12.00	1.50		18.00			
	Gazeeb to Path Way	1	1	25.00	1.50		37.50			
	Basic 970.00						1,177.58	sqm	1,028.20	1,210,782.62
	add 6% Area weightage 58.20									
	Total 1,028.20									
3	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 P.NO.5.I.NO.2.1								
	chainlink fencing foundation						-			
		1	1	370.00	0.70	0.75	194.25			
		Consider 25% of Quantity					48.56			
	Benches plateform	1	15	2.35	1.35	0.25	11.90			
	drain desilt						-			
	north side	1	1	100.00	0.45	0.45	20.25			

	east side		1	1	120.00	0.45	0.45	24.30			
	south side		1	1	60.00	0.45	0.45	12.15			
	west side		1	1	105.00	0.45	0.45	21.26			
	gym equipment portion		1	1	15.80	9.63	0.35	53.24			
	Basic	157.00						191.66	cum	166.42	31,895.54
	add 6% Area weightage	9.42									
	Total	166.42									
4	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 P.NO.5.I.NO.2.4										
	Rain water harvesting		1	2	3.14	1.5x1.5/4	3.00	10.60			
	Basic	283.00						10.60	cum	299.98	3,179.04
	add 6% Area weightage	16.98									
	Total	299.98									
5	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms										
	Qty vide item no 4,5							202.25	cum	139.92	28,299.44
	(Considering Basic rate Rs.2.50 Tonne Km.)x1.28x20km					=	64.00				
	Add loading & unloading item No.17.1 KSRRB M 100-1					=	68.00				
	Total rate per Cum					Rs	132.00				
	Area Weightage @ 6%						7.92				
							139.92				
6	Providing and laying in position plain cement cement concrete of mix M10 with OPC cement @220 kgs , with 40mm and down size graded granite metal coasre aggregate @ 0.85 cum ans fine aggregate @ 0.465cum , machine mixed , concrete laid in layers not exceeding 15cms thick ,well compacted ,in foundation and plinth , including cost of all materials , labour , HOM of machinery , curing complete as per specification . specification No P.NO.12 I.NO.4.2 (1:3:6)										
	chainlink fencing foundation										
			1	1	370.00	0.70	0.15	38.85			
			Consider 25% of Quantity					9.71			
	Main Entrance Gate		1	1	4.50	2.40	0.15	1.62			
			1	1	4.50	1.20	0.15	0.81			
	gym equipment portion		1	1	14.00	8.00	0.15	16.80			
								28.94			
	Deductions:-Tree Portions		1	6	0.75	0.75	0.15	0.51			
	Equipment		1	1	1.20	1.00	0.15	0.18			
								0.69			
	Basic	5,046.00						28.26	cum	5,348.76	151,135.90
	add 6% Area weightage	302.76									
	Total	5,348.76									
7	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 P.NO.23.I.NO.5.6										
	chainlink fencing foundation										

	Bhuvaneshwarinagara Park		1	1	370.00	0.60	0.60	133.20			
	basic	4,187.00	Consider 25% of Quantity					33.30	cum	4,438.22	147,792.73
	add 6% Area weightage	251.22									
	Total	4,438.22									
8	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 P.NO.23.I.NO.5.9										
	chainlink fencing basement										
	Bhuvaneshwarinagara Park		1	1	370.00	0.45	0.45	74.93			
								74.93			
	deduct poles fixing concrete		1	62	0.45	0.45	0.45	5.65			
								69.28			
	Basic	5,005.00	Consider 25% of Quantity					17.32	cum	5,305.30	91,881.50
	add 6% Area weightage	300.30									
	Total	5,305.30									
9	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 P.NO.12.I.NO.4.6										
	coping concrete										
	Bhuvaneshwarinagara Park		1	1	370.00	0.45	0.10	16.65			
			Consider 25% of Quantity					4.16			
	poles fixing concrete		1	60	0.45	0.45	0.45	5.47			
	senior citizen gym equioments		1	1	14.00	8.00	0.10	11.20			
	Main Entrance Gate concreting		1	1	4.50	2.40	0.10	1.08			
			1	1	4.50	1.20	0.10	0.54			
								22.45			
	Deductions:-Tree Portions		1	6	0.75	0.75	0.10	0.34			
	Equipment		1	1	1.20	1.00	0.10	0.12			
								0.46		-	
	Basic	5,441.00						21.99	cum	5,767.46	126,840.86
	add 6% Area weightage	326.46									
	Total	5,767.46									
10	KSRB 15.1.3 :Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.[P.No-112 , I.No-15.3]										
	chainlink fencing basement										
	Bhuvaneshwarinagara Park		1	2	370.00		0.45	333.00			
	Basic rate	98.00	Consider 25% of Quantity					83.25	smt	103.88	8,648.01
	Add 6% area weightage	5.88									
	Total	103.88									

	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) P.NO.262.I.NO.37.2										
	MS Poles		1	60	2.40			144.00			
	Basic	819.00						144.00	m	868.14	125,012.16
	add 6% Area weightage	49.14									
	Total	868.14									
12	Providing and fixing M.S.Block pipe of 38mm dia ,of heavy gauge of 14 including removing the bends , cutting the pipe and fixing pipe in between two vertical poles (M.S.rectangular poles) and spot welding the chain link with M.S Block pipe including cost of all materials wastage in cutting , and scaffolding whereever neccessary with all lead and lift as directed by the engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint .P.NO.262 I.NO.37.4										
	Bhuvaneshwarinagara Park		1	3	369.83			1,109.48			
	Basic rate	324.00				Consider %63 of Quantity		698.97	m	343.44	240,055.74
	add 6% area weightage	19.44									
	total	343.44									
13	Providing chain link fencing 50mm size of 8 gauge properly stretched between rectangular poles and fixed with suitable bolts and nuts , the free end shall be welded to the pole and block pipe at top and bottom as required including cost of materials, labour lead and lift and as per directions of the engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint.P.NO.262.I.NO.37.3										
	Bhuvaneshwarinagara Park		1	1	370.00		1.50	555.00			
	Basic rate	659.00				Consider 80% of Quantity		444.00	sqm	698.54	310,151.76
	add 6% area weightage	39.54									
	total	698.54									
14	Fabricating ,Providing and eracting in position Hot dip galvanized Gate . Using 72x72x4.8mm square GI pipe frame with top pipe bending in heavy duty hydralic press with sand packing and hot bending to from double arch as per drawing profile ,20mm hot dip galvanized square rods for verticals at 150cmc/c as shown in the drawing including providing hot dip galvanized forged ornamental design in b.n square rods and heads at top ,middle, and bottom .intermediate supports at 75x12mm and 50x6mm arch bent to hot dip galvanized flats .the work is inclusive of throughing GI flate GI sq.rods ,placing ,welding all the joints including grinding ,finishing metal patty ,painting two coats enamal painting .the rate is inclusive of all materials like GI sq.pipe ,GI sq.rods GI forged designs etc.,heavy duty Hinges are made out of 75mm solid sq,block assembled with 20mm dia bearing in three places for each flop. Heavy duty locking arrangment at two places including cost of labour ,paint, eracting charges using hoist pully cranes with all lead and lift loading transpoting unloading ,scaffolding charges and all other incidental charges for successful completion of the work as per directions of the engineer -in- charge of the work.(DATA APPROVED RATE)										
	Ornamental grill at park		1	1	4.50		1.95	8.78			
			1	1	3.60		1.95	7.02			
								15.80	sqm	12,475.00	197,042.63
15	Executive Bench- Made out of Sadarahalli Grey stone with Hand supports with 3 line finishing with arch design with 100mm slabs .Height 90xLength 150 width 45cms (Data appoved rate)										
			1	20				20.00	nos	18,200.00	364,000.00

	Supplying and fixing Dust bins (data approved rate)										
			1	4				4.00	nos	4,800.00	19,200.00
	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 P.NO.253.I.NO34.6.6 1200 MM DIA										
	1200mm dia		1	2	3.00			6.00	m	9,849.52	59,097.12
	Basic	9,292.00									
	6%area weightage	557.52									
	total	9,849.52									
18	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS P.NO.6.I.NO.2.15										
	for rain water pit		1	2	3.14x1.5x1.5/4x.3			1.06	cum	2,240.84	2,374.73
	Basic	2,114.00									
	6%area weightage	126.84									
	total	2,240.84									
19	Providing and laying , placing and hand packing the stone aggregates P.NO.II SL.NO.30										
	40mm and down nominal size stone		1	2	3.14x1.5x1.5/4x2.1-3.14x1.2x1.2/4x2.1			2.67			
			1	2	3.14x1.2x1.2/4x1			2.26			
			1	1	4.5x4.5 x.3			6.08			
								11.01	cum	825.00	9,080.26
20	Providing RCC design mix M20 using granite metal 20mm and down size for 10 cms thick solid parapet or perforated as per design, specification and directions. (exclusive of cost of steel and fabrication charges) including necessary centring, form work and finishing smooth with CM (1:3) etc., complete.P.NO.19.I.,NO.4.56										
	Top cover slab 10cm thick		1	2	1.20	1.20		2.88	sqm	674.16	1,941.58
	Basic	636.00									
	Add 6% area weightage	38.16									
	Total	674.16									
21	KSRB 2.6 : Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. specification. No. KBS 2.10.2 P.NO.6.I.NO.2.13										
			1	1	4.50	4.50	0.30	6.08			
	Basic rate	2,129.00						6.08	cum	2,256.74	13,709.70
	add 6% area weightage	127.74									
	total	2,256.74									
22	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. P.NO.109.I.NO.14.62										
	senior citizen gym equioments		1	1	14.00	8.00		112.00			
	Main Entrance Gate		1	1	4.80	0.45		2.16			
			1	1	1.35	0.45		0.61			
								114.77			
	Deductions:-Tree Portions		1	6	0.75	0.75		3.38			
	Equipment		1	1	1.20	1.00		1.20			
								4.58			

	Basic	1,085.00						110.19	sqm	1,150.10	126,732.39
	Add 6% Area weightage	65.10									
	Total	1,150.10									
23	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.P.NO.122.I.NO.15.80										
	Kerb Stones		1	2	440.00		0.35	308.00			
							Consider 35% of Quantity	107.80			
	Gazeeb To Pathway		1	2	25.00		0.35	17.50			
	benches plateform		2	15	1.35		0.35	14.18			
	gym equipment portion		1	1	14.00		0.35	4.90			
			1	2	8.00		0.35	5.60			
	Main Entrance Gate, Near		1	1	4.50		0.35	1.58			
	Basic rate	26.00						151.55	smt	28.08	4,255.52
	Add 8% area weightage	2.08									
	Total	28.08									
24	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.P.NO.122.I.NO.15.81										
	Kerb Stones		1	2	440.00		0.35	308.00			
	Gazeeb To Pathway		1	2	25.00		0.35	17.50			
	benches plateform		2	15	1.35		0.35	14.18			
	gym equipment portion		1	1	14.00		0.35	4.90			
			1	2	8.00		0.35	5.60			
	Main Entrance Gate, Near		1	1	4.50		0.35	1.58			
	Basic rate	66.00						351.75	smt	71.28	25,072.74
	Add 8% area	5.28									
	Total	71.28									
25	KSRB 15-18.2: Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.P.NO.121.I.NO.15.74										
	Chain Link Fencing		1	2	370.00		1.50	1,110.00			
	Basic rate	82.00						1,110.00	sqm	88.56	98,301.60
	Add 8% area weightage	6.56									
	Total	88.56									

	TSI-1139A-the AIR WALKER is made out of 100mm NB MS pipe .the substructure consist of 40mm NBMS pipes and heavy duty bushes pivoted to 1end and moveable up down in other the foot step is made up pressed steel metal of heavy gauge it provides to side-by-side exercisr position whichg deliver cardiovascular vacular benifits by simulating the running motion although with straighter legs and no impact .the exercise completly the invoids the impact stress runners often experience on feet ,knees,hips and lower back .many people can not tolerate the jarring motion of joggimg walking is a good alternative ,but it does not streach are fully active the importent muscule in the upper thigh the air walker improves both cardio vascular fitness and flexibility exercise level can be up 5to 15 minuts duration (Data approved Rate)										
			1	1				1.00			
								1.00	nos	155,000.00	155,000.00
27	TSI-1140A-the AIR WALKER is made out of 100mm NB MS pipe .the substructure consist of 40mm NBMS pipes and heavy duty bushes pivoted to 1end and moveable in lateral motion the sheet is made up of pressed metal of heavy gauge rin rider station involues cardio vascular benefits using a rowing motion this apparatus promotes strenghthrning the bieeps .latissmus dorsi ,and rear deltoids in the pulling motion while also developing cardio vascular fittness exercise levels can be of 5th 15minutes.(Data approved Rate)										
			1	1				1.00			
								1.00	nos	140,000.00	140,000.00
28	the SPINNERS made up of 100mm NB MS pipe .the substructure consists of 25 and 20mm NB MS pipe and heavy duty bearings and bushes provided to ensure smooth wheel rotation .they have four large rotary wheels with adjustable resistance the exescise employs the full flexibality around the shoulder and the many muscles that rise and lower the arms and provide shoulder stability work the apparatus in various directions .the spinner can be installed at a variety of heights making it perfect for all ages the above equipment is duly powder coated.(Data approved Rate)										
			1	1				1.00			
								1.00	nos	170,000.00	170,000.00
								TOTAL	Rs		4,502,482.51
29	Add 11 KRIDL CHARGES										495,273.08
30	Miscellaneous and unforseen charges										2,244.41
											5,000,000.00

Certificate,

1. Certified that I have visited the work spot personally .
2. Certified that the items included in the Estimate is most econmical and safe way of executing the work.
3. Certified that the work is with in the BBMP Limit.
4. certified that The estimate is prepared based on CSR of PWD Bangalore circle 2016-17.

Assistant Enginner
Projects, yelahanka Zone
BBMP

Assistant Executive Engineer
Projects, yelahanka Zone
BBMP

Executive Engineer
Projects, yelahanka Zone
BBMP

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

18/12/17

Administrative Approval

Accorded For Rs. 50.00 lakhs.
Head of A/C P-3292
CER NO : 93/17-18 Dt: 22/12/17

E.E. (Project) 22/12

Technical Sanction

Accorded For Rs. 50.00 lakhs
Head of A/C P-3292
CER NO : 466/17-18 Dt: 27/12/17

TA CE (YNK)